

# Mobile IPv4 DHCP Configuration Extension

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MIP4 Working Group – IETF 75

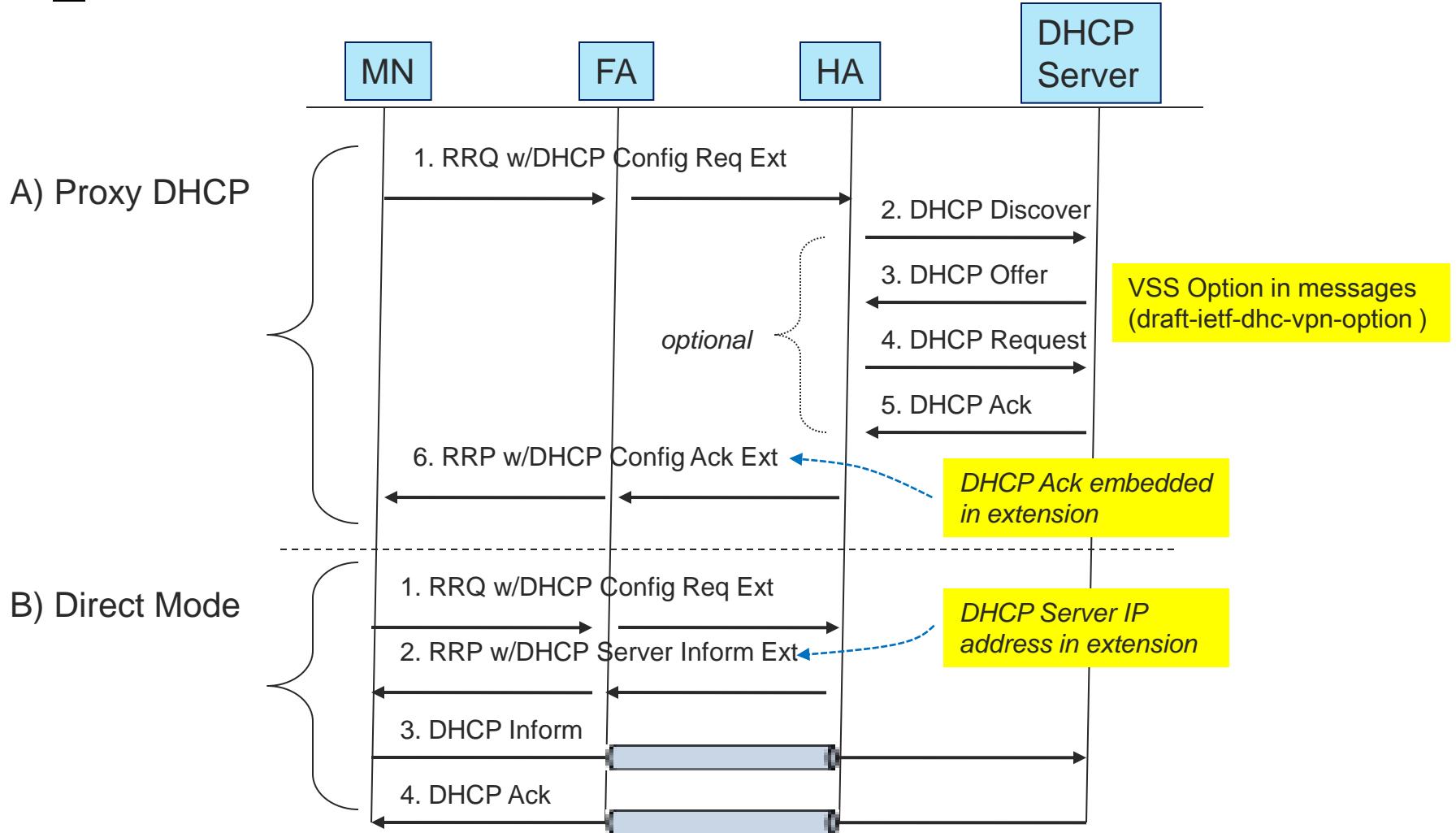
Stockholm, Sweden

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# [Overview]

- MN obtains host configuration via DHCP options with Mobile IP assistance
- Configuration parameters from home domain only
- MN has DHCP client function or capable of processing DHCP Ack message
- VPN domain (VRF) consideration for DHCP server location via DHCP Virtual Subnet Selection (VSS) Option
- Proxy Mobile IPv4 integration – DHCP Ack includes the obtained DHCP options

# Call Flows



# [Extensions]

- DHCP Configuration Request Ext
- DHCP Configuration Ack Ext
- DHCP Server Inform Ext

# Summary

- Configuration info from the
  - visited domain
  - + home domain
  - + Signaling efficiency
  - + Built-in authentication of the configuration,
  - + Extensible parameters
  - Support for non-DHCP capable MN
  - + Filter DHCP message into home domain
  - + Avoid IP address management conflict between MIP and DHCP
  - + Avoid use of broadcast

`draft-ietf-mip4-gen-ext`

Proxy DHCP and Direct Mode

Proxy DHCP

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Legend: Pro - +

Con - -